



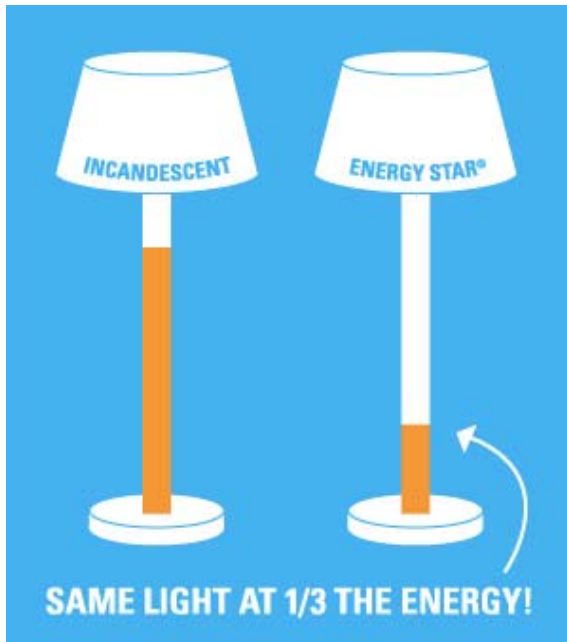
# ***A Comprehensive Energy Efficiency Strategy for Utah***

**Utah Energy Forum**  
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# What is Energy Efficiency?

## Efficiency vs. Conservation



Courtesy of EPA Energy Star



Energy Efficiency: A resource we can use for energy planning just like our familiar fossil resources.

# Energy Efficiency in Utah

## HB46 – 2006, Energy Policy Amendments:

(1) It is the policy of the state that:

(f) Utah will pursue energy conservation, energy efficiency, and environmental quality;



## Governor's Energy Policy:

In April 2006, Governor Jon Huntsman set forth an energy policy for the state with the goal of increasing energy efficiency 20% by 2015.

# **Comprehensive Utah Energy Efficiency Strategy**

**Authors: Southwest Energy Efficiency Project,  
Utah Clean Energy, American Council for an  
Energy Efficient Economy and Intermountain  
Combined Heat and Power Center**

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Utah Governor's Office, the Environmental  
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The Energy Foundation**

# Strategy Overview

- Evaluated 23 policies and initiatives to achieve 20% improvement in the efficiency of energy use statewide by 2015
- Electricity, natural gas, gasoline, and diesel fuel use in Utah
- Analyzed energy savings potential, cost, cost-effectiveness, environmental and social benefits, and other considerations
- Defines 20% efficiency *improvement* as 16.7% *reduction* in energy use

# Strategy Benefits

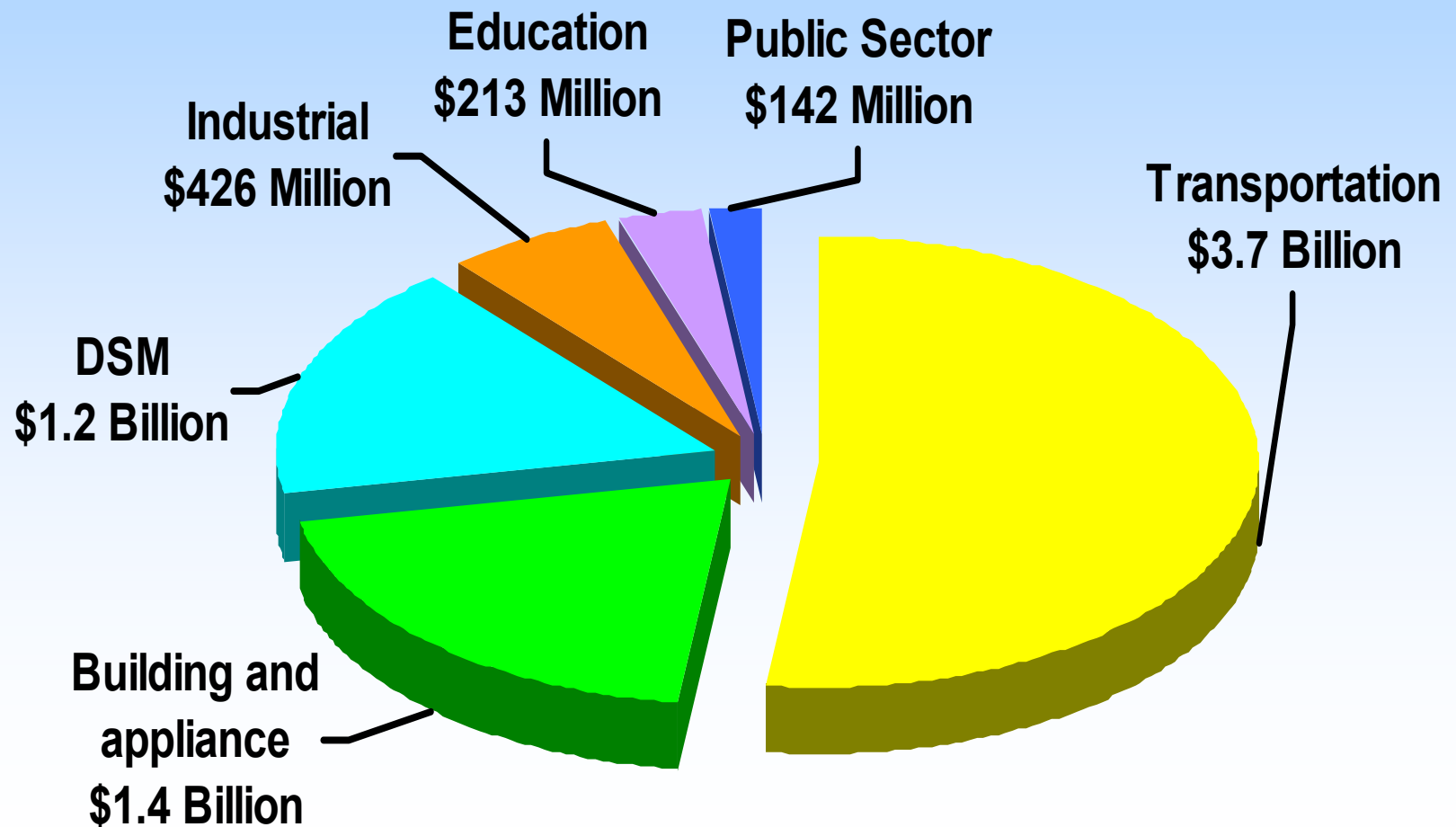
*Save Energy, Save Money, Prevent Pollution*

- Net Economic Benefit to the State of Utah, Utah Citizens and Businesses: **\$7.1 Billion**
- Energy savings in 2015: **128 Trillion BTU/year**  
2020: **217 Trillion BTU/year**
- CO2 Reductions in 2015: **7.9 million metric tons/yr**
- Water Savings in 2020: **5.6 billion gallons/year** – annual water use of 36,600 Utah households

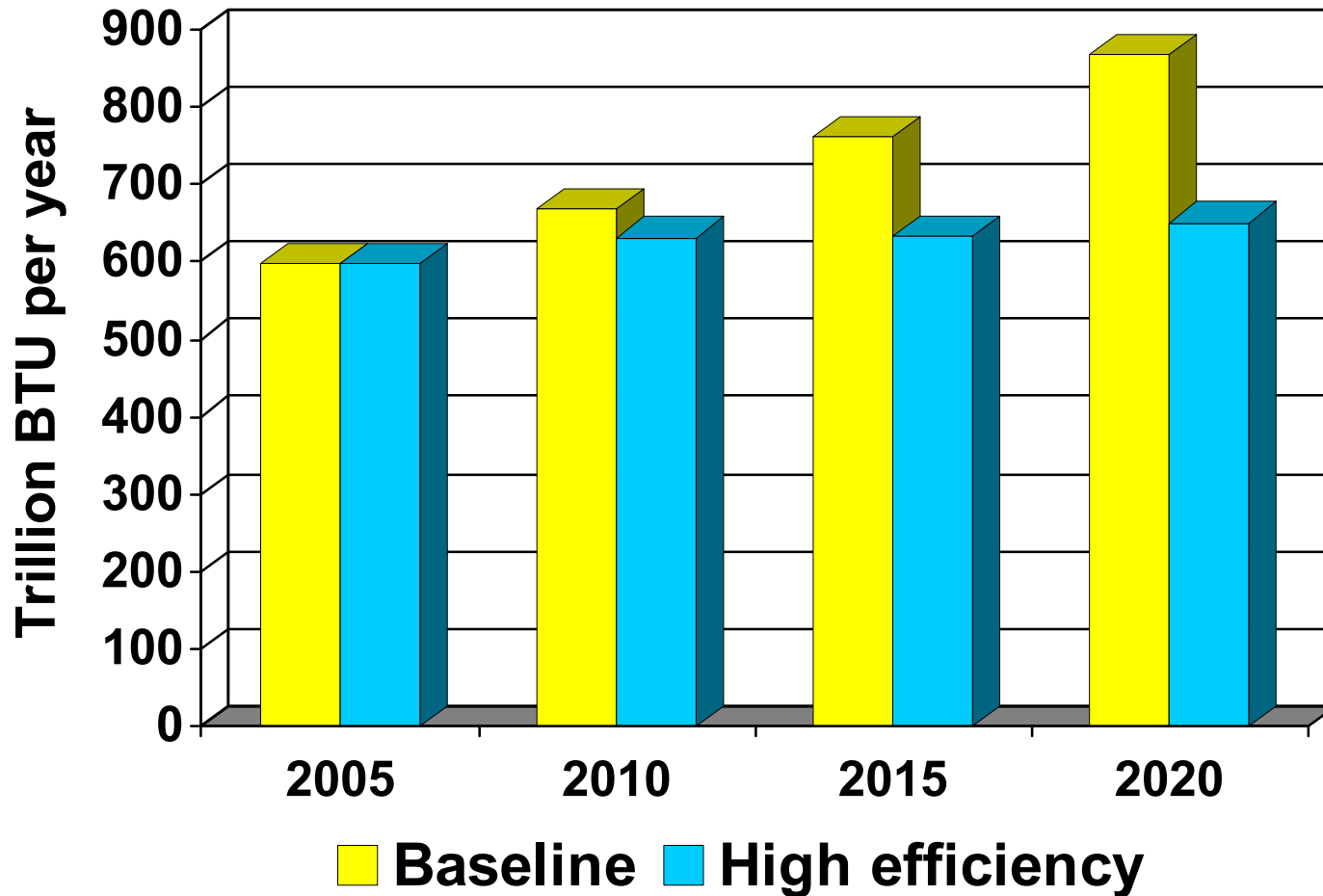


# Total Net Economic Benefit:

## \$7.1 Billion

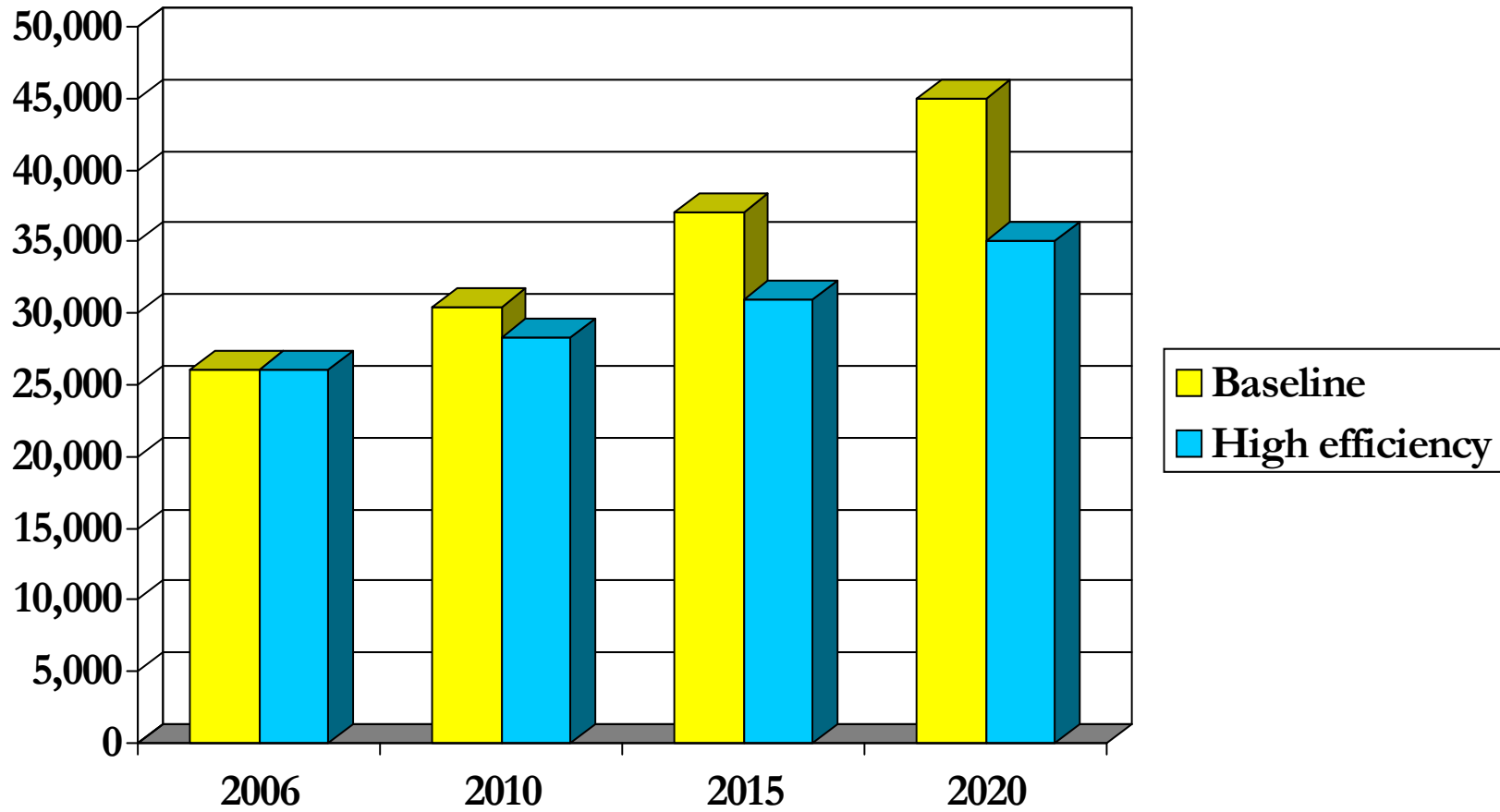


# Primary Energy Savings in High Efficiency Scenario

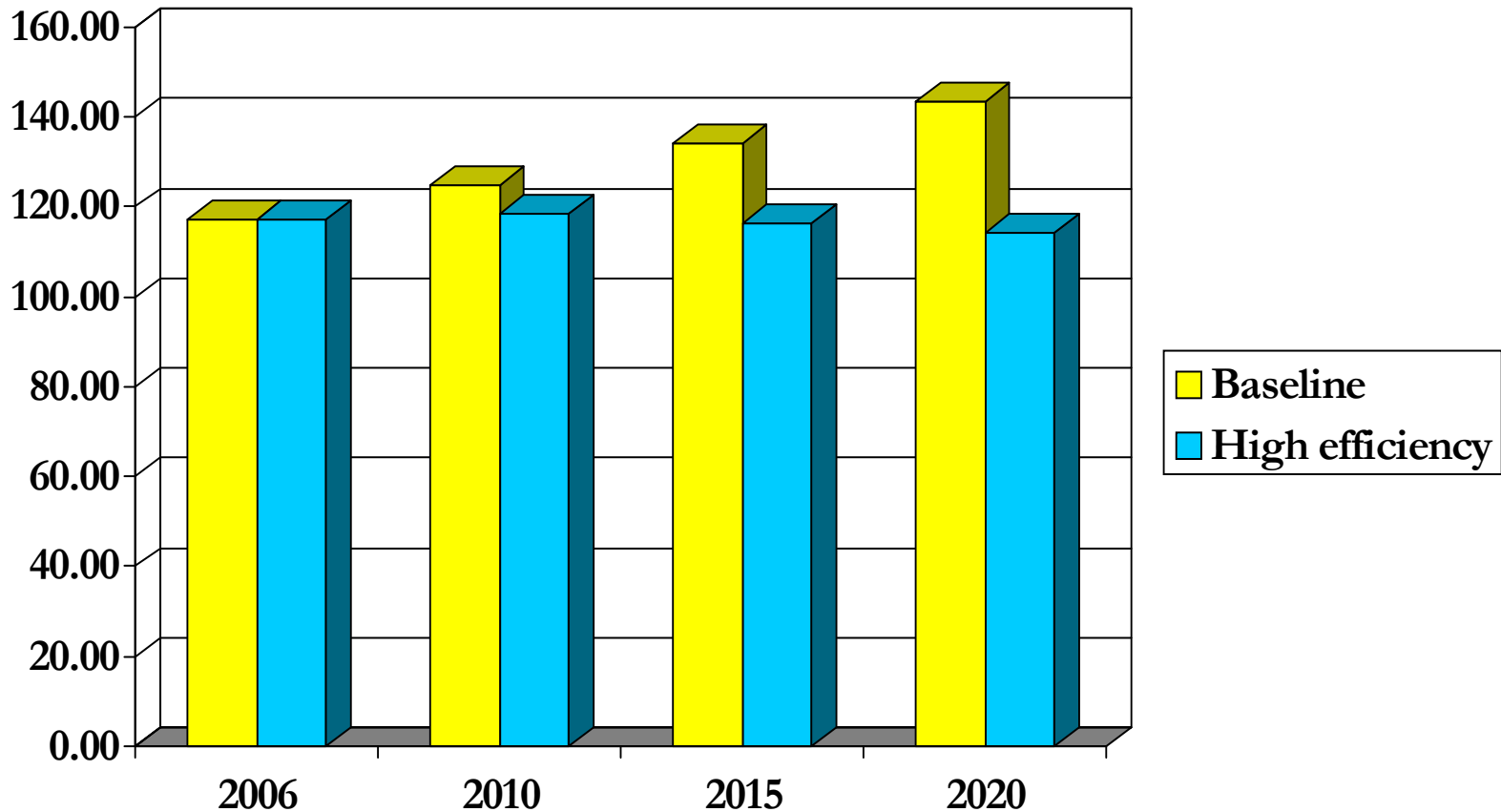




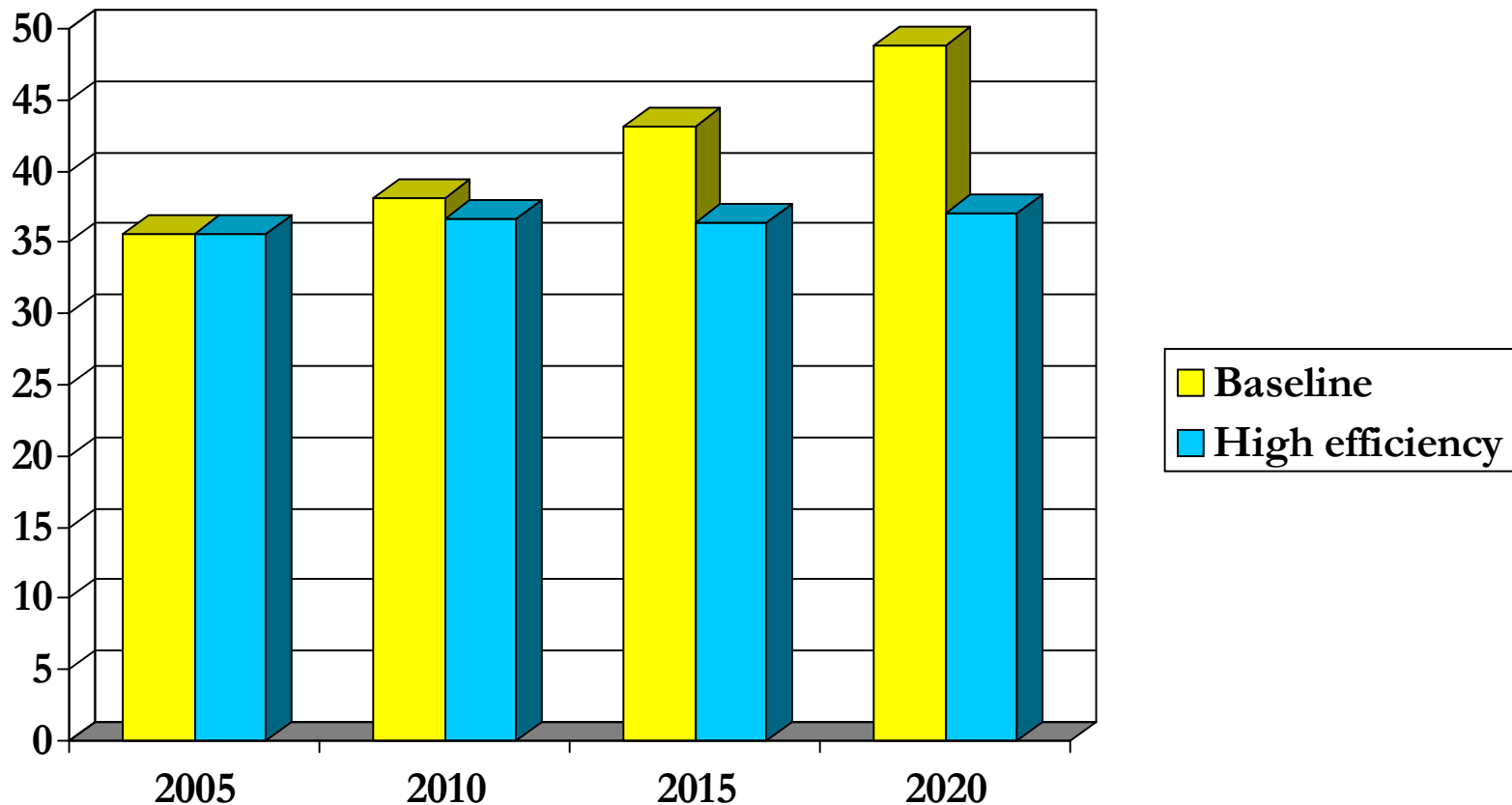
# Electricity Scenarios (GWh per year)



# Natural Gas Scenarios (million decatherms per year)



# Gasoline and Diesel Fuel Scenarios (million barrels per year)



# High Priority Policies

- Energy savings standards or targets for utility Demand-Side Management (DSM) programs
- Expansion of natural gas utility energy efficiency programs
- Upgrade building energy codes and fund code training and enforcement
- Lamp and appliance efficiency standards for products not covered by federal standards
- Expand low-income home weatherization



# High Priority Policies (cont.)<sup>1</sup>

- Industry challenge and recognition program to stimulate industrial energy intensity reductions
- Energy savings targets for state agencies
- Clean car standards for new cars and light trucks
- Pay-as-you-drive insurance
- Reduce rate of growth of vehicle use
- Broad-based public education campaign

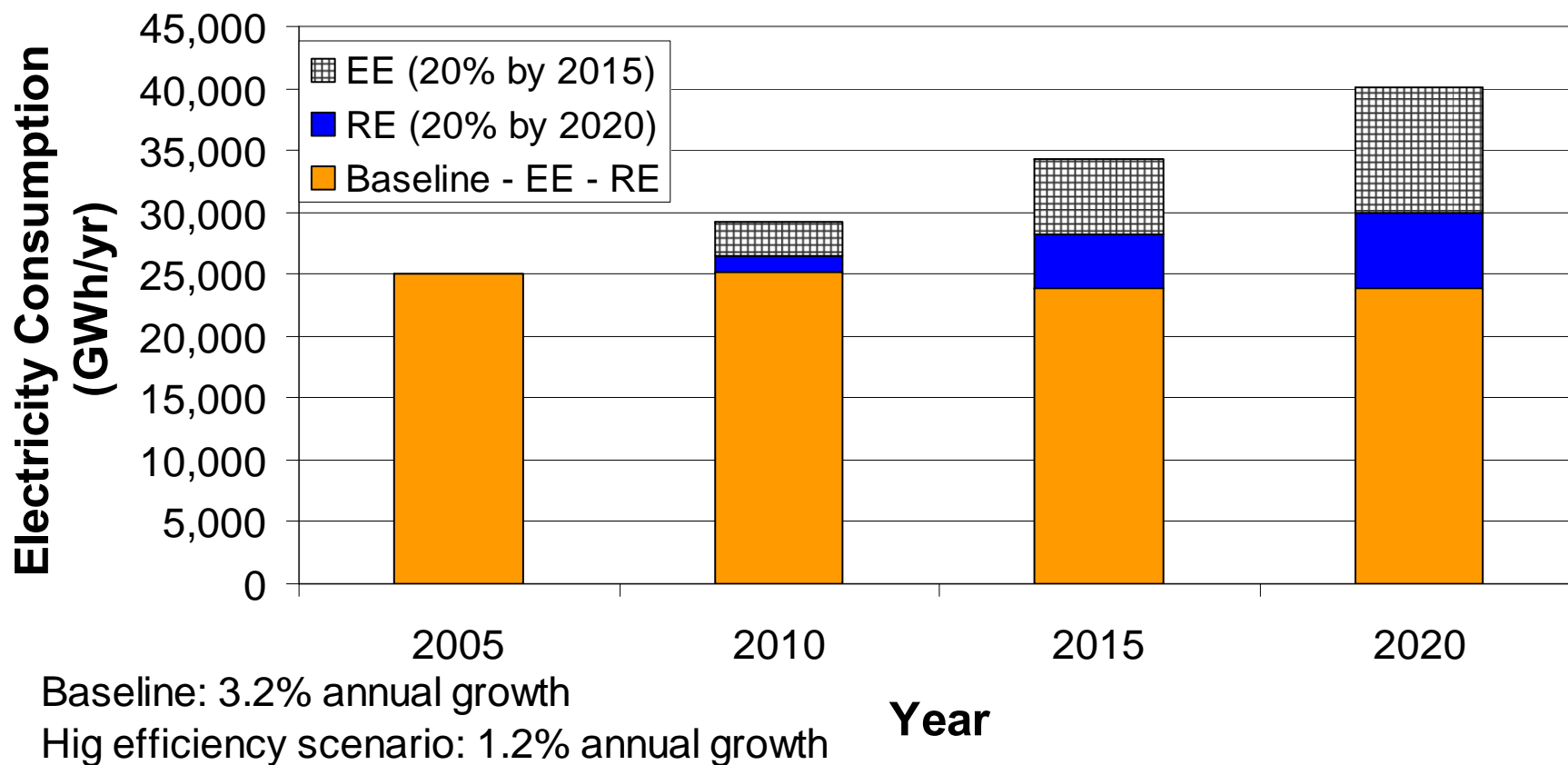


# Next Steps

- Develop specific policies that work for Utah
  - Efficient Building & Vehicle Incentives
  - Building Code Enforcement
- Provide education to policy makers, the general public and professionals about energy efficiency
  - College-level Certification
  - K-12 Schools & Local Government
- Monitor (and celebrate) success



## Utah Electricity Savings with 20% by 2015 EE Goal and Impact of 20% by 2020 RPS



# Questions?

## Thank you.

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